

ZIV, D.M.; ISHINA, V.A.; ZIV, V.S.

Electrodeposition of bismuth from dilute solutions. Part 2:
Deposition on carbon electrodes. Radiokhimiia 1 no. 4:488-492
'59. (MIRA 13:1)
(Bismuth)

NOVIKOVA, G. I.; VOLKOVA, Ye. A.; GOL'DIN, L. L.; ZIV, D. M.; TRET'YAKOV,
Ye. I.

Radioactive decay of Ac^{277} and excited levels of Fr^{223} and
 Th^{227} . Zhur.ekspl. teor.fiz. 37 no.4:928-937 O '59.

(Actinium--Isotopes) (Thorium--Isotopes)
(Francium--Isotopes)

S/186/60/002/006/011/026
AC51/A129

AUTHORS: Ishina, V. A., Ivanchenko, A.F., Ziv, D.M.

TITLE: A study on the electrochemical separation of bismuth from its diluted solutions. III. The effect of oxygen and acidity of the solution on the separation-dissolution potentials of bismuth.

PERIODICAL: Radiokhimiya, v. 2, no. 6, 1960, 691 - 698

TEXT: A comparative study was made on the separation-dissolution potentials ($\varphi_{s/d}$) of bismuth in aerated and non-aerated solutions. The kinetics of the reaction was studied with the aid of the radioactive isotope ThC (Ref. 2: D. M. Ziv, V. A. Ishina, B. S. Ziv, Radiokhimiya, 1, 4, 488, 1959.) The method used for determining the potentials is similar to that described by D. M. Ziv, V. A. Ishina (Ref. 1: Radiokhimiya, 1, 2, 185, 1959). The values of φ_0 (the formal standard potential) were calculated according to the "least squares" method for the area of the linear relationship of $\varphi_{s/d}$ to $\lg C$, and n (the number of participating electrons in the reaction) was estimated in the same way. It was established that the lowest limit of applying the abbreviated

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S/186/60/002/006/011/026
A051/A129

A study on the electrochemical ...

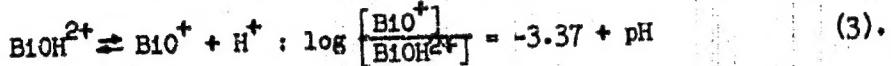
form of the Nernst equation (C_{limit}) for the non-aerated solutions shifts considerably toward the lower concentrations widely exceeding the limits of complete coverage of the electrode. The removal of air (oxygen) from the solution is equal in its action to a decrease in the area of the electrode (Ref. 2) which causes the shift of C_{limit} in the same direction. When the air is removed from the solution, the concentration of the surface oxygen compounds or the surface concentration of the firmly adsorbed atoms of oxygen on the cathode drops sharply and the formation of bismuth is hampered. The possibility of formation of "microelectrode" aggregates is increased which causes the shift of C_{limit} toward lower C . Oxygen participates in the electrode reaction forming bismuth oxides, the heats of formation of which are sufficiently high positive values (for Bi_2O_3 $H = 137.8$ kcal, for BiO $H = 49.8$ kcal, etc). The Bi residue obtained in the electrolysis were analyzed for oxygen, in order to determine the nature of the electrode reactions of bismuth. The second electrode reaction which may take place in addition to the reaction of simple ion discharge using up three electrons, is given as: $\text{BiO}^+ + e \rightleftharpoons \text{BiO}$ ($\varphi_0 = 0.39$ v) (1). The effect of the acidity of the solution was studied on three concentrations of nitric acid (0.1, 1 and 3 n). The comparative analysis of the obtained data shows that there are only very slight differences in the electrochemical beha-

Card 2/4

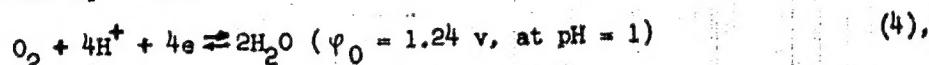
S/186/60/002/006/011/026
A051/A129

A study on the electrochemical ...

avior of bismuth in three concentrations of HNO_3 . Certain features noted in the behavior of the $\varphi_{s/d}$ versus $\lg C_{\text{Bi}}$ curve are thought to be connected with the conditions of hydrolysis of bismuth in the given medium. The following ratio is accepted for the formation of the bismutyl ion according to the reaction



The oxygen ionization reaction taking place in the aerated solutions according to the equation:



would facilitate the formation of BiO^+ , BiOH^{2+} ions or other products of hydrolysis of bismuth. Experiments showed that the deviation of the value of the angle of decline of the line $\varphi_{s/d}$ versus $\lg C_{\text{Bi}}$ from the theoretical value for the reaction $\text{Bi}^{3+} + 3\text{e} \rightleftharpoons \text{Bi}$ is determined by a side reaction forming bis-

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S/186/60/002/006/011/026
A051/A129

A study on the electrochemical

muth oxides: $\text{BiO}^+ + e^- = \text{BiO}$. There are 5 tables, 3 figures, and 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English language publication reads as follows: J. Van Muylder, M. Pourraux, Proc. 9th Meeting Intern. Comm. Electrochem. Therm. a Kinetics, 47, London, 1959.

SUBMITTED: January 18, 1960.

Card 4/4

ZIV, D.M.; VOLKOVA, Ye.A.

Extraction of ^{226}Ra from radium-mesothorium preparations.

Radiokhimiia 3 no.1:68-74 '61.

(MIRA 14:3)

(Thorium-Isotopes)

(Radium-Isotopes)

VOLKOVA, Ye.A.; ZIV, D.M.

Making concentrated preparations of MgTh_2 (Mc 228). Radiokhimiia 3
no.1:75-78 '61. (MIRA 14:3)
(Actinium—Isotopes)

24816

8/081/61/000/011/008/040
B105/B203

55230

AUTHORS: Abramova, L. I., Ziv, D. M.

TITLE: Quantitative determination of small polonium amounts.
Communication II. Sublimation in vacuumPERIODICAL: Referativnyy zhurnal, Khimiya, no. 11, 1961, 48, abstract
118337 (Radiokhim. analiz produktov deleniya. M-L.,
AN SSSR, 1960, 104-107)TEXT: The authors developed a method of quantitative Po separation from
powders of rock and artificial mixtures basing on sublimation in vacuo.
The sublimation is conducted in a quartz apparatus consisting of a small
ball with ground-in neck, into which pulverized rock is poured, and of a
platinum disk 15 mm in diameter which is placed on the ground section
and pressed on by means of a brass cylinder which simultaneously serves
as water cooler for the disk. The whole system is pumped out during the
experiment by an initial vacuum pump. The ball of the apparatus is placed
in an electric furnace. At a temperature of 700-800°C and a vacuum of

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24816

S/081/61/000/011/008/040

B105/B203

Quantitative determination of small ...

10^{-2} - 10^{-3} mm Hg, the Po is sublimated during 3 hr and quantitatively precipitated on the platinum disk. The method was used for determining Po in magnetite of known uranium content. The results agreed with the theoretical value within the limits of experimental errors. The authors studied the dependence of Po sublimation on the time of "aging" of the preparation on platinum. It was shown that after 48-hr aging a heating of 700°C during 2.5 - 3 hr is required for the Po sublimation. [Abstracter's note: Communication I, see RZh-Khim, 1961, 10B318 (10B318). Complete translation.]

Card 2/2

23879
S/186/61/003/001/012/020
A051/4129

213400

AUTHORS: Ziv, D.M., Volkova, Ye.A.

TITLE: The formation of RdTh from radio-mesothorium samples

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 68-73

TEXT: The authors recommend a method for the formation of RdTh and RaD from radio-mesothorium samples, and the separation of RdTh from RaD based on the difference in the solubilities of radium, thorium and lead bromides in mixtures of water- 47% HBr, methyl alcohol- 47% HBr and methyl alcohol-ether at different ratios of the mixture components. The method ensures almost complete separation of RdTh and RaD from a Ra-MsTh sample and separation of these compounds without adding a carrier. The alcohol-ether method based on the precipitation of RaD with barium bromide is recommended for separating RdTh and RaD from a saturated solution of barium bromide in methyl alcohol using ether. The final yield of RdTh is 86% of the initial quantity. In the experimental procedure first the relationship of the degree of precipitation of barium bromide and radium bromide to the quantity of the added precipitant

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23879

S/186/61/OC3/OC1/012/020
A051/4129

The formation of RdTh ...

was investigated (Figs 1,2). The graphical results show the best conditions of precipitation for BaBr_2 and RaBr_2 . Further, the behavior of RdTh and RaD was studied, each one separately, at various ratios between the volumes of the precipitant and the saturated solution of BaBr_2 . RdTh content was determined by the emanation method. The results obtained are analyzed and it is concluded that the precipitation of BaBr_2 from its saturated water solution or solution in methyl alcohol by a 4-fold volume of 47% HBr results in the main quantities of RdTh, RaD and RaE (about 90%) remaining in the solution. The purification of RdTh from traces of Ra (RaTh) and RaD can be conducted by adding drops of saturated alcohol (CH_3OH) solution of BaBr_2 (about 10 mg) to the alcohol-ether solution and subsequent separation of the residue. The purification of RaD from RdTh and barium traces is carried out by precipitating RaD in the form of a sulfide. Together with RaD the same amount of lead is separated as accumulated in the radio-mesothorium sample (RaG, ThD). There are 5 tables, 2 graphs and 11 references: 2 Soviet-bloc, 9 non-Soviet-bloc.

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23880

S/186/61/003/001/013/020
A031/A129

213400

AUTHORS: Volkova, Ye.A., Ziv, D.M.

TITLE: The production of concentrated samples of $\text{MgTh}_2(\text{Ac}^{228})$

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 75-78

TEXT: The authors recommend a fast and convenient method for MgTh_2 formation from radio-mesothorium samples without adding a carrier based on the difference in the solubilities of actinium and barium bromides and barium-radio-mesothorium-1 in mixtures of methyl alcohol and ether. The authors mention their previous work (Ref 10) on the formation and experimental procedures used for this method. From the results of the previous experiments it is seen that 78-89% MgTh_2 is extracted into the alcohol-ether solution. Ra-MgTh bromide was used for the extraction of MgTh_2 from which first RaTh had been removed, as well as ThB, RaD, RaE, Po, etc. (Ref 10). Since the extracted MgTh_2 decayed with a half-life of 6.5 hours instead of 6.15 hours caused by the presence of slight admixtures of long-lived radio-elements together with their products of decay (Ra, RaD, etc.), an additional purification of MgTh_2

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8/186/61/003/001/013/020
The production of concentrated samples of MsTh_2 ... A051/4129

was undertaken by adding drops of a saturated solution of BaBr_2 in methyl alcohol (about 10 mg of BaBr_2) to the alcohol-ether solution of MsTh_2 and subsequent separation of the precipitate. The decay curve of MsTh_2 is shown in the graph. The half-life of MsTh_2 is 6.2-6.3 hours. The yield of MsTh_2 after purification is 70-80%. The production of it from radio-mesothorium samples, including purification of Ra- MsTh , traces and Pb isotopes, takes 20-30 minutes and can be carried out continuously over a period of 1-1.5 months, since the quantity of RdTh accumulated in this time is relatively small (1-1.5%), and does not pass into the alcohol-ether solution in noticeable quantities. After this time has passed the separation of the accumulated RdTh should be carried out according to the method described in Ref 10, and only after this Ra-MsTh may be used as a source of MsTh_2 . There are 2 tables, 1 graph and 10 references: 1 Soviet-bloc, 9 non-Soviet-blocs.

Card 2/3

L 39090-66 EWT(m)/T/EWP(t)/ETI IJP(c) DS/JD/JG

ACC NR: AF6022878

SOURCE CODE: UR/0186/66/008/002/0197/0206

AUTHOR: Ziv, D. M.; Sukhodolov, G. M.; Fateyev, V. F.; Lastochkin, L. I.

ORG: none

TITLE: Study of the electrochemical behavior of elements present in low and ultralow concentrations in solution. Part 1. Dependence of the deposition potential of lead on platinum and gold electrodes on the Pb^{2+} concentration in solution

SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 197-206

TOPIC TAGS: electrodeposition, lead, platinum, gold, electrode potential

ABSTRACT: A review of the literature shows that the nature of the electrode material on which the electrodeposition of an element from ultradilute solutions takes place plays a major part in the electrodoposition process. In this connection, the effect of the electrode material on the electrodeposition of lead on gold and platinum electrodes in nitric acid solutions was studied by means of polarization curves of the second kind. ThB (Pb^{212}) was used as the radioactive tracer for lead. The dependence of the critical deposition potential of lead, ϕ_{cr} , on its content in the solution was studied over a wide range of lead concentrations (10^{-12} to 10^{-2} g-ion/l). The curve expressing this dependence was found to have three regions: 1) region of constant ϕ_{cr} , (2) intermediate region, and (3) region of linear dependence of ϕ_{cr} on $\log C$.

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UDC: 543.53:546.815

39
B

139090-66

ACC NR: AP6022878

1. e., the Nernst region. It was found that on platinum electrodes, ϕ_{or} in the region of independent potentials is 0.110 V higher than on gold. The width of the intermediate region on platinum is two orders of magnitude smaller than on gold. In the Nernst region, the values of n (from the Nernst equation) were found to be 1.46 and 1.45 for platinum and gold electrodes respectively. Orig. art. has: 5 figures, 3 tables, and 3 formulas.

SUB CODE: 07/ SURM DATE: 26Dec64/ ORIG REF: 006/ OTH REF: 009

L 39088-66 EWP(e)/EWT(m)/T/EWP(t)/ETI IJP(c) WH/DS/JD/EM
ACC NR: AP6022879 SOURCE CODE: UR/0186/66/008/002/0206/0210

AUTHOR: Ziv, D. M.; Sukhodolov, G. M.; Fateyev, V. F.; Lastochkin, L. I.

ORG: none

TITLE: Study of the electrochemical behavior of elements present in low and ultralow concentrations in solution. Part 2. Deposition of lead on graphite electrodes /5/

SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 206-210

TOPIC TAGS: lead, graphite, electrode potential, electrodeposition

ABSTRACT: The paper continues a study of the dependence of the deposition potential of lead on its concentration in solution. The effect of the critical deposition potential ϕ_{cr} of lead on graphite electrodes was investigated by means of the method of polarization curves of the second kind. A study of the effect of solution acidity (0.1 and 3 N HNO_3) on ϕ_{cr} in the 10^{13} - 10^{-1} g-ion/l range of lead concentrations showed that the HNO_3 concentration has a substantial influence on the course of the dependence of ϕ_{cr} on $\log C_{Pb^{2+}}$ in the range of ultralow lead concentrations (from 10^{-13} to 10^{-7} g-ion/l). This influence is insignificant at lead concentrations above 10^{-6} g-ion/l. A study of the dependence of ϕ_{cr} on $\log C_{Pb}$ in 1 N perchloric and nitric acid solutions showed that the nature of these acids has no appreciable influence on this dependence. Values of

UDC: 543.53:546.815

Card 1/2

L 39088-66

ACC NR: AP6022879

the critical electrodeposition potentials of lead on graphite electrodes, obtained by methods of polarized curves of the first and second kind, were compared and found to agree satisfactorily. Orig. art. has: 4 figures and 5 tables.

SUB CODE: 07/ SUEM DATE: 26Dec64/ ORIG REF: 006

Card 212 MLC 10

ZIV, D.M.; SHESTAKOVA, I.A.

Solubility of some actinium compounds. Part 1: Determination of the solubility of actinium oxalate. *Radiochimica Acta* no.2, 166-175 '65.

Solubility of some actinium compounds. Part 2: Determination of solubility and evaluation of the relative basicity of actinium hydroxide. *Ibid.* 175-187 (MIRA 18:6)

KAPOV, R.L.; ZIV, D.M.; LEYPUNSKAYA, D.I.; SAVOSIN, S.I.; FEDOROV, V.V.;
FRADKIN, G.M.; SHIMLEVICH, Yu.S.; BASIN, Ya.N.; NUKHARENKO, N.K.;
SHESTAKOV, B.I.

Use of Ac - Be neutron sources in industrial geophysics. Atom energ.
16 no.3:269-270 Mr '64. (MIRA 17:3)

ZIV, D.M.; KIRIN, I.S.; IVANCHENKO, A.F.; ISHINA, V.A.

Enrichment of radioactive preparations of antimony based on
phthalocyanine complexes. Radiokhimiia 5 no.5:632-633 '63.
(MIRA 17:3)

ISHINA, V.A.; ZIV, V.S.; IVANCHENKO, A.F.; ZIV, D.M.

Study of the electrochemical behavior of antimony in micro- and ultramicroamounts. Radiokhimiia 5 no.5:629-631 '63, (MIRA 17:3)

ZIV, M.A. (Leningrad, Liteynyy pr., d. 34, kv. 18.)

Endometriosis of the rectum [with summary in English], Vop. onk.
(MLRA 10:4)
3 no.1:105-108 '57

1. Iz I khirurgicheskoy kliniki (zav.-prof. S.A. Khordin) Instituta
onkologii AMN SSSR (dir.-chl.-korr. AMN SSSR prof. A.I. Serebrov)
(ENDOMETRIOSIS, case reports
rectum)
(RECTUM, dis.
endometriosis)

ZIV, M.A. (Leningrad, Liteynyy pr., d.34, kv.18); PAVLOV, K.A. (Leningrad, ul. Voinova, d.64, kv.15); VOL'FSOY, H.I. (Leningrad, ul. Dzerzhinskogo, d.25, kv.3)

Effects of omain on skin cancer and the precancerous state [with summary in English]. Op.onk. 3 no.2:221-226 '57. (MLEA 10:6)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chlen-korr. Akademii meditsinskikh nauk SSSR prof. L.M.Shabad) i nauchno-poliklinicheskogo otdela (zav. - a. nauchnyy sotr. K.A.Pavlov) Instituta onkologii Akademii meditsinskikh nauk SSSR (dir. - chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. A.I.Serebrov).

(SKIN NEOPLASMS, ther.

deacetyl-N-methylcolchicine in cancer & precancerous state (Rus))

(COLCHICINE, related comp.

deacetyl-N-methylcolchicine, ther. of skin cancer & precancerous state (Rus))

214, M. A.

EXCERPTA MEDICA Sec.16 Vol.6/4 Cancer April 58

1343. *An assessment of patients with lung cancer treated at the Oncological Institute AMS USSR (Russian text)* Ziv M. A. and Pavlov K. A. *Vestn. Khir.* 1957, 79/9 (29-32 and 156) Graphs 2

The case histories of 1,883 outpatients supposed to have lung cancer are discussed. In 818 cases the diagnosis proved to be correct (45%). The protracted course of the examinations in the outpatient centres, with many time-consuming roentgen controls of patients with so-called chronic pneumonia led to a delayed diagnosis and reduced operability. Every non-resolved and, especially, recurrent so-called non-specific pneumonia in patients over 40 yr. of age is suspect. These patients must be listed apart, and hospitalization in special clinics must follow without delay.

LARIONOV, L.F.; ZIV, M.A.

Late results of chemotherapy in lymphogranulomatosis. Vop. onk. 4 no.2:161-166 '58. (NIIRA 12:8)

1. Iz Instituta onkologii AMN SSSR (dir. - deyestvitel'nyy chlen AMN SSSR prof. A.I. Sarebrov). Adres avtorov: Moskva, 3-ya Meshchanskaya ul., d.61/2, korp.9. Institut eksperimental'noy patologii i terapii raka.

(NITROGEN MUSTARDS, ther. use

N-bis (2-chloroethyl)-2-chloropropylamine in Hodgkin's dis., late results (Rus))

(HODGKIN'S DISEASE, ther.

N-bis (2-chloroethyl)-2-chloropropylamine, late results (Rus))

ZIV, M.A. (Leningrad, Liteynyy pr., d.34, kv.18)

Bronchogenic cyst of the posterior mediastinum. Vest. Mir. 82
no.1:131-132 Ja '59. (MIRA 12:2)

1. Iz khirurgicheskogo otdeleniya (zav. - prof. S.A. Kholdin)
Instituta onkologii AMN SSSR.
(MEDIASTINUM, cysts
bronchogenic of posterior mediastinum (Rus))

ZIV,M.A.; PAVLOV, K.A.

Use of some chemotherapeutic preparations in treating malignant tumors and systemic diseases. Trudy Inst. onk. AMN SSSR no.3:158-168 '60 (MIRA 16:12)

1. Iz poliklinicheskogo otdela (zav - starshiy nauchnyy so-trudnik K.A.Pavlov) Instituta onkologii AMN SSSR.

DYMARSKIY, L.Yu.; DIL'MAN, V.M.; ZALESSKAYA, L.I.; ZIV, M.A.; EDGIBOV,
Ye.A.; PAVLOVA, M.V.

Combined hormone and chemotherapy and radiotherapy of far
advanced breast cancer. Vop. onk. 9 no.7:44-52 '63.

(MINI 16:12)

1. Iz Instituta onkologii AMN SSSR (nauchnyy rukovoditel' raboty
chlen-korrespondent AMN SSSR prof. S.A. Khordin). Adres avtorov:
Leningrad, P-129, Institut onkologii AMN SSSR.

ZIV, M.A.; PAVLOV, K.A. (Leningrad, pr.Engel'sa, d.28, kv.75)

Chronic pneumonias and bronchial cancer. Vest. Khir. 89 no.9;
20-24 S '62. (MIRA 15:12)

1. Iz nauchno-poliklinicheskogo otdela (zav. - starshiy nauchnyy
sotrudnik K.A.Pavlov) Instituta onkologii AMN SSSR (dir. - prof.
A.I.Serebrov).

(PNEUMONIA) (BRONCHI--CANCER)

ZIV, M. A.; PAVLOV, K. A.

Experience with the use of some chemo-therapeutic preparations in the treatment of malignant neoplasms and systemic diseases. Vop. klin. lech. ziol. novoobraz. 7:105-112. '61. (Russian)

1. Institut onkologii AMN SSSR (dir.-- deystv. chl. AMN SSSR prof. A. I. Serebrov).

(ANTINEOPLASTIC AGENTS ther)

ZIV, D.M.; ZIV, V.S.; SINITSYNA, G.S.

Use of the electrochemical method for determining the solubility
of polonium hydroxide. Trudy Radiev. inst. Akad. SSSR. 8:158-162
'58. (MIRA 12:2)

(Polonium hydroxide) (Electrochemistry)

ISHINA, V.A.; ZIV, V.S.; IVANCHENKO, A.F.; ZIV, D.M.

Study of the electrochemical behavior of antimony in micro- and ultramicroamounts. Radiokhimiia 5 no.5:629-631 '63. (MIRA 17:3)

ZIV, D.M.; ISHINA, V.A.; ZIV, V.S.

Electrodeposition of bismuth from dilute solutions. Part 2:
Deposition on carbon electrodes. Radiokhimiia 1 no.4:488-492
'59. (MIRA 13:1)

(Bismuth)

ZIV, Veniamin Samoilovich

Principles of world economics. Riga, RITI, 1930. 91 p.

1. Economic policy

ZIV, Ye. F.

PROCESS AND PRODUCTIVITY

Schedler in *Chairs of the eastern slope of the Kurayshik Ala-Tau*; N. F. Ziv, *Trans. All-Union Sci. Research Inst. Econ. Minifur.* (U. S. S. R.) No. 163, 4 (34) (in English, 1930-31) (1930).—See C. A. 32, 41091.

D. W. Pearce

430.314 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230009-4"

ZIV, Ye.F.; VAYSENBERG, A.I.; STEPANOV, I.S., nauchnyy red.; YERASHOV, A.D.,
glavnnyy red.; GINZBURG, M.I., red.; ZVEREV, L.V., red.; KREYTER, V.M.,
red.; MOKROUSOV, V.A., red.; SOLOV'IEV, D.V., red.; KERUSHCHOV, N.A.,
red.; CHERNOVITOV, Yu.L., red.; SHMALENKOV, I.V., red.; NEKRASOVA,
N.B., red.izd-va; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw material; hand-
book for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo
syr'ia; spravochnik dlia geologov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry
po geol. i okhrane nadr. No.49. [Niobium and tantalum] Niobii i tantal.
Izd.2., perer. 1959. 49 p. (MIRA 12:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya. (Niobium) (Tantalum)

SAMSONOV, Grigoriy Valentinovich; KONSTANTINOV, Vladimir Ivanovich.
Prinimali uchastiye: ZIV, Ye. V., KOSOLAPOVA, T. Ya., MIKHALEV,
M.S., doktor khim.nauk, setsenzenz; VAYSENBERG, A. I., kand.tekhn.
nauk, retsenzenz, red.; KOLCHIN, O. P., kand.tekhn.nauk, retsenzenz,
red.; AKHANGEL'SKAYA, M. S., red.izd-va; VAYNSHTEYN, Ye. B., tekhn.
red.

[Tantalum and niobium] Tantal i niobii. Moskva, Gos.sauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 264 p.
(MIRA 12:11.)

(Tantalum)

(Niobium)

BORODINA, M.L.; ZIV, Ye.F.; SHAYKEVICH, S.B.; GUBAREVA, N.A.

Use of ilmenite concentrates for the production of pigmented
titanium dioxide by the sulfuric acid method. Titan i ego
splavy no.5:282-288 '61. (MIRA 15:2)

(Ilmenite)
(Titanium oxide)

S/137/62/000/006/030/163
A006/A101

AUTHORS: Borodina, M. L., Ziv, Ye. F., Shaykevich, S. B., Gubareva, N. A.

TITLE: Utilization of ilmenite concentrates for the production of pigmentary titanium dioxide with the aid of the sulfuric acid method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 13, abstract 6096
(In collection: "Titan i yego splavy", no. 5, Moscow, AN SSSR, 1961
282 - 288)

TEXT: It was established that with greater intensity of utilizing the ilmenite concentrate, the degree of Ti extraction decreases from 94 to 76%. Best results regarding the requirements of pigmentary TiO_2 production by the sulfuric acid method, are obtained with a concentrate of the following composition: TiO_2 49 - 53%; FeO 20 - 31%; Fe_2O_3 14 - 22%; the amount of utilized ilmenite is 0.3 - 1.78%. Pigmentary TiO_2 , obtained from this concentrate, is distinguished by a high degree of whiteness and dispersity, and is characterized by the least Cr and V admixtures.

[Abstracter's note: Complete translation]

L. Vorob'yeva

✓

Card 1/1

MALCIC, Stjepan S.; ZIVADINOVIC, Milutin S.

X-ray investigation of iodolaurionite. Bul Inst Nucl 10:47-50 Mr '60.
(EEAI 10:5)

1. Institute of Nuclear Sciences "Boris Kidrich" Laboratory of
Physical Chemistry.
(Iodolaurionite) (X rays)

ZIVADINOVIC, Jelena

Succession of mixed populations of Collembola in the dolomite complex near Konjic. God Biol inst Sar 15 no.1/2:147-150 '62

1. Bioloski institut Univerziteta, Sarajewo.

ZIVADINOVIC, Milutin, dipl. fiz. hem. (Beograd, Ljube Stojanovica 38/3)

Neutron diffractometer at Vinca. Teknika Jug 18 no.7;Supplements
Radicizotopi zrac 2 no.7:1219-1221 Jl'63.

1. Institut za nuklearne nauke "Boris Kidric", Beograd-Vinca.

10

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Amphoteric nature of organic oxygen compounds. N. A. Prokof'ev and R. Zivadikov (Bull. Soc. Chim. Yugoslavia, 1931, 6, 23-30).—The fusion diagrams of the systems $\text{NH}_3/\text{piperonal}$ and $\text{p-C}_6\text{H}_4\text{NH}_2/\text{piperonal}$ do not give evidence of compound formation; $\text{p-C}_6\text{H}_4\text{NH}_2/\text{NH}_3$ forms a compound with 1 mol. of $\text{p-C}_6\text{H}_4(\text{CO})_2\text{O}$, m.p. 195°, and with 2 mols. of ammonia, m.p. 43°. R. T.

430-524 METALLURGICAL LITERATURE CLASSIFICATION

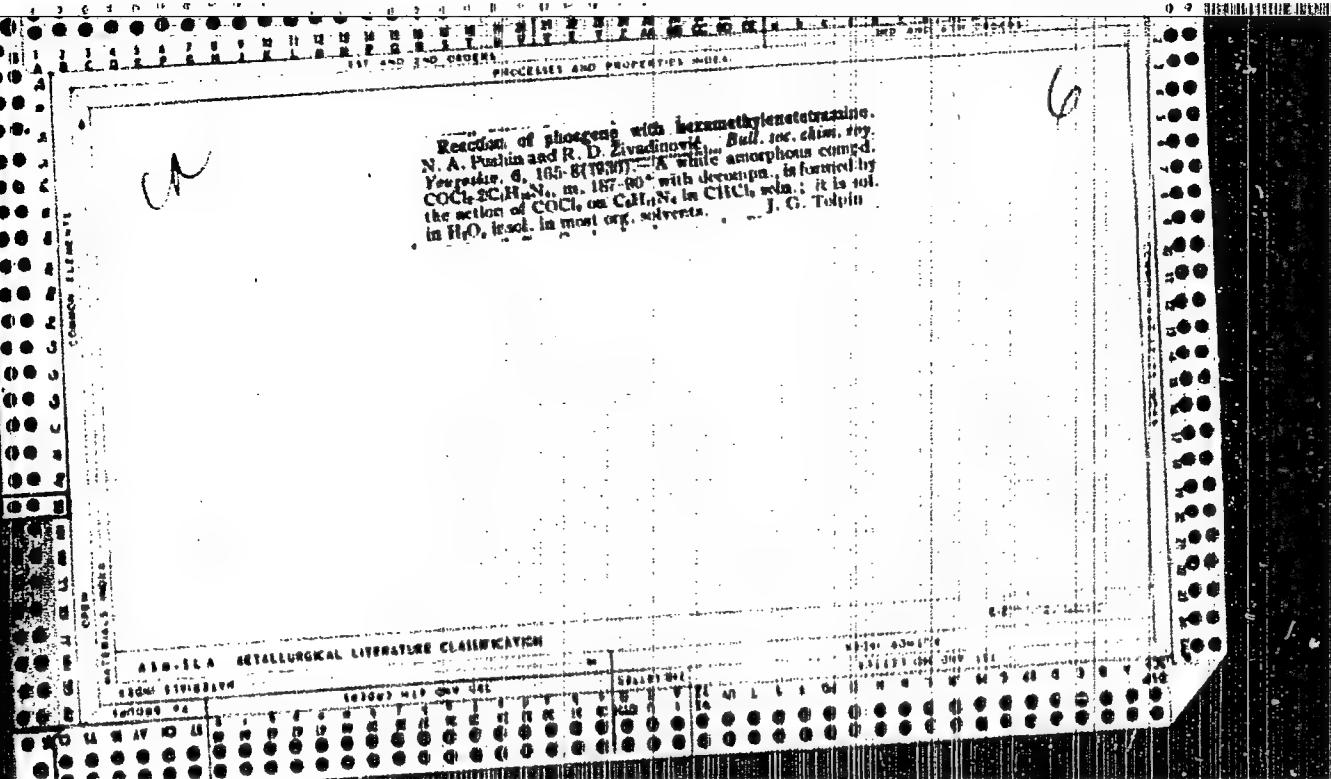
TECHNICAL LITERATURE

140000-74

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CLASSIFICATION

SUBJ CAT CIV 131



Federalism and unitarianism. Beograd, 1936. 179 p. (J9-2450)

JC352-Z5

RADIOBIOLOGY

YUGOSLAVIA

KILIBARDA, M.; MARKOVIC, B.; ZIVANCEVIC, S. and PANOV, D.; Institute of Occupational Medicine of the Socialist Republic of Serbia (Institut za medicinu rada SRS,) Belgrade.

"Osmotic Resistance of Leukocytes Following Fractionated X-Irradiation of Rats."

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Abstract [English summary modified]: Whole-body irradiation in rats exposed to X-rays 1 r per min, 3 mA 70 kV for 20 minutes weekly for 20 weeks was followed by a progressive fall in osmotic resistance and longevity of white blood cells. Table, graph, 2 Soviet and 7 Western references; ms received 21 Jan 65.

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SO: ZELEZNICE No. 6, Year XI, June 1955

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of a series of soils developed on Triassic limestone. Zemljiste
biljka 12 no.1/3:95-102 Ja-D '63.

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RISTIC, M. M.; RADIC, S.; ZIVANOVIC, B.

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1. Department of Reactor Materials, Boris Kidric Institute of Nuclear Sciences, Beograd-Vinca.

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Bul Inst.Nucl 13 no.3:31-39 0 '62.

1. Department of Reactor Materials.

ZIVANOVIC, D.

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(Tehnika, Vol. 11, no. 10, 1956. Beograd, Yugoslavia)

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ZIVANOVIC, Dusan M.

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on *Paramecium caudatum*, *Stylorychia pustulata*, and *Spirostomum teres*.
Glas Fizir muz B 14:45-66 '59.

ZIVANOVIC, Miodrag, D.
SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: not given

Affiliation: Department of Reactor Physics, Institute of Nuclear Sciences
"Boris Kidrich"

Source: Belgrade-Vintcha, Bulletin of the Institute of Nuclear Sciences
"Boris Kidrich", Vol 11, Mar 1961, pp 59-65.

Data: "Double-Crystal Neutron Spectrometer."

Co-authors:

JOVIC, Djordje, M., Department of Reactor Physics, Institute of
Nuclear Sciences "Boris Kidrich",

KONSTANTINOVIC, Jovan, M., Department of Reactor Physics, Institute
Nuclear Sciences "Boris Kidrich".

ZIVANOVIC, Miodrag D.; JOVIC, Dorde M.; KONSTANTINOVIC, Jovan M.

The neutron two-crystal spectrometer. Bul Inst Nucl 11:59-65
'61.

1. Institute of Nuclear Sciences "Boris Kidrich," Department of
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(PLACENTA PRAEVIA,
partial, with uterus tamponade)

18.11.196
ZIVANOVIC, Olivera, sanitetski major dr; STOJADINOVIC, Nada, vojni sluzbenik
V kl. san. sluzbe dr; MILIC, Mirjana, tehnicki saradnik laborant;
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to some antibiotics. *Vojnosanit. pregl.* 19 no.3:207-209 Mr '62.

1. Vojnomedicinska akademija u Beogradu, Klinika za kozne i
polne bolesti, Higijenski zavod - Mikrobiolski institut.
(ANTIBIOTICS) (DRUG RESISTANCE MICROBIAL)
(STAPHYLOCCAL INFECTIONS) (DERMATITIS)
(DERMATOLOGY)

S

ZIVANOVIC, Srboljub, asistent, dr.

Contribution to the study of the physical growth of boys and girls of secondary schools in Zemun according to the determination of Rohrer's index with the method of Gavrilovich. Glas. hig. inst. 10 no.1/2:55-59 Ja-Je '61.

1. Anatomski institut Medicinskog fakulteta u Beogradu Upravnik: Prof. dr Branko Sljivic.

(GROWTH)

ZIVANOVIC, Srboljub; LOLIC-DRAGANIC, Vera

Tuberculum interosseum radii and its ligaments. Med. pregl. 17
no.7:365-369 '64

1. Zavod za anatomiju Medicinskog fakulteta u Novom Sadu
(Upravnik: Prof. dr. Sinisa Radojevic).

ZIVANOVIC, Teodor, Sarajevo

On latent tuberculosis. Med. arh. 15 no.6:83-92 N-D "61.

(TUBERCULOSIS diag)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230009-4

ZIVANOVIC, Toma, 1884-

VUKOVIC, Antonije, 1872- jt. au.

(Maintaining and improving the species) Sarajevo, Drzavna stamparija, 1932. 152 p.

(41-37010) QH431.Z47

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230009-4"

YUGOSLAVIA / Chemical Technology. Chemical Products and
Their Application. Pharmaceuticals. Vitamines.
Antibiotics.

YUGOSLAVIA Their Application of Antibiotics. Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 43394. Zivanovic O., Velasevic K., Zivanovic the PVT

Abs Jour: Ref Zhur-Khimiya, N.
Author : Vitorovic O., Velasevic K., Zivanovic D.
Inst : Not given.
Inst : Effect of Supersonic Waves on the PVTD T
Inst : No. 3, 183-187.

Abs Jour: Ref Zhur-
Author : Vitorovic O., Velasevic K., Zivanovic
Inst : Not given.
Title : Effect of Supersonic Waves on the PVTD Type Dextran.
J. farmats., 1958, 8, No 3, 183-187.

Author : Not given.
Inst : Effect of Supersonic wave
Title : Orig Pub: Arkhiv farmats., 1958, 8, No 3, 183-187.
of 800 kcy/sec fre

Orig Pub: Arkhiv farmats., 1958, 3, 1

Abstract: Supersonic waves (SW) of 800 kcy/sec frequency and of 0.30 v/cm² intensity (I), in the course of 15 minutes cause dipolymerization and lowering of viscosity η of the 0.45% water solution (1 hour after dissolving, 15 min., 6-12°); to cause a change of the 2.65% D solution I of 0.56 v/cm² is required. With the increase in I, η and molecular weight decrease proportionally. When I = 1.5 v/cm²,

Card 1/2

III-42

YUGOSLAVIA / Chemical Technology! Chemical Products and
Their Application. Pharmaceuticals. Vitamins. R
Antibiotics.

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 43394.

Abstract: η are 0.181 and 0.205 instead of 0.253, and molecular weights are lowered by 46 and 32% for the 0.45 and 2.65% solutions of D. For the prolonged action of SW exceeding 10 minutes, η is proportionally lowered. In the action of SW (1.5 v/cm², 15 min.) on the light fraction derived from D with the acid of CH₃OH no changes were noticed. In the case involving a mixture of medium and heavy fractions, the depolymerization is observed. It is more pronounced for the heavy fraction (η varies from 0.304 and 0.361 up to 0.293 and 0.337, and molecular weight varies by 7 and 113% respectively). -- I. Matveyeva.

Card 2/2

ZIVANOVIC, D.

Effect of supersonics on the germination of corn seed.

P. 81(Belgrade. Institut za fiziologiju razvica, genetiku i selkciju. ZPORNIK RADOVA.
No. 4, 1956, Beograd, Yugoslavia)

Monthly Index of East European Accessions(EEAI) LC. Vol. 7,no. 2,
February 1958

ZIVANOVIC, D

YUGOSLAVIA / Analytical Chemistry. Analysis of Inorganic E
Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67287.

Author : Zivanovic D., Maslov F.

Inst : Not given.

Title : Determination of Tungsten in Ores.

Orig Pub: Tehn. pregl., 1956, 8, No 4, 84-86.

Abstract: A procedure for the determination of W in ores by a gravimetical method is described. A comparison of results obtained by gravimetical and photometrical methods on one of the Yugoslavian ores is given. 0.5-5.0 gr samples and heated in 100 cc of concentrated HCl on a sand bath until the total

Card 1/3

YUGOSLAVIA / Analytical Chemistry. Analysis of Inorganic E
Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67287.

Author: I.

Abstract: volume of solutoin is reduced to approximately 40 cc, followed by the addition of 10cc of concentrated HNO_3 , reduction of the volume by approximately 5cc, addition of approximately 200cc of water, 10 cc of cinchonine (I) (125 gr I in HCl , 1:1); the solution is then kept for 2 hours in a warm place and filtered. The precipitate is washed with a dilute solution of I, dissolved in 15cc of NH_4OH (1:2), allowed to stand for 10 minutes, and filtered. The resulting filtrate is heated (to remove excess NH_3), diluted to 200cc with boiling water, followed by the addition of 3cc of concentrated HCl and 10cc of I solution, and kept for 2 hours warm. The precipitate, removed by filtration, is washed with the dilute solution of I, dried,

Card 2/3

23

YUGOSLAVIA / Analytical Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67287.

Abstract: calcined at 750°, and weighed as WO_3 . For the photometrical determination of W, previously described method (Grimaldi F., North C., Ind. Eng. Chem., Anal. Ed., 1943, 15, 625) is used. It is based on fusing of a sample with Na_2O_2 , dissolving it in water, adding NH_4SCN and $SnCl_2$ (in the form of an acid solution), and subjecting the resulting solution to photometrical analysis while employing a violet filter S42E (Zeiss). Results of the gravimetric and photometric determinations coincided and were within the limits of normal analytical errors.

Card 3/3

Zivanovic, D.

Yugoslavia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1261

Author: Zivanovic, D.

Institution: None

Title: Application of Photometry in Flotation During the Wet Separation of the Ores and in the Determination of Noble Metals

Original

Periodical: Technika, 1956, Vol 11, No 7, 1010-1017 (published in Croat with a summary in German)

Abstract: The photometric technique is applied to the determination of Cu in rocks, ores, and flotation concentrates; the method is based on the dissolution of the sample in a mixture of H_2SO_4 and HNO_3 , evaporation to dryness, dissolution of the residue in water, and addition of ammonia. The photometric determination is carried out with a wavelength of 7,200 Å. Lead is determined photometrically with a wavelength of 4,200 Å, with the addition of Na_2S in the presence of an acetate buffer with pH 4.6 and of gelatin solution. For the

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Yugoslavia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1261

Abstract: determination of W in ores the metal is first converted to Na_2WO_4 and the photometric determination is carried out at 4,200 Å after addition of NH_4SCN and SnCl_2 .

Card 2/2

Zivanovic, Dusan

Yugoslavia/Analytical Chemistry. General Topics.

G-1

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19509.

Author : Dusan Zivanovic.

Inst :

Title : Application of Photometry to Industrial Checking.

Orig Pub : Tehnika, 1956, 11, No 10, 1521-1526.

Abstract : The part of photometric methods of industrial checking, especially in the metallurgical industry, and the advantages of these methods as compared with chemical methods were discussed. The usefulness of photometric methods of analyses of usual and small size samples was shown, the checking of the quantometer was described and examples of using photometric methods in various regions were cited. It is recommended to determine Cu in the form of the tetramine complex $Cu(NH_3)_4^{2+}$, Pb in the form of PbS sol, Zn in the form of a complex with SCN- and methyl violet, Cr in the form of CrO_4^{2-} , Au in the form of Au^0 , and Pt^{2+} by the

Card 1/2

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Yugoslavia/Analytical Chemistry. General Topics. G-7

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19509.

coloration of molybdenum blue. The above methods are applicable in particular for checking the processes of flotation and wet methods of concentration.

Card 2/2

-24-

ZIVANOVIC, D.; MASLOV, T.

ZIVANOVIC, D.; MASLOV, T. Contribution to determining woltfridite norms. p. 84

Vol. 8, No. 4, 1956.

TECHNICKI PRUGLED

TECHNOLOGY

Zagreb, Yugoslavia

So: East European Accession, Vol. 6, No. 2, Feb. 1957

ZIVANOVIC, D.

Use of photometry in flotation, in wet separation of ores, and in analysis of precious metals, p.10101 TEHNIKA (Savaz inzenjera i tehnicara Jugoslavije) Beograd. Vol. 11, no. 7, 1956.

SOURCE: East Europe Accession Lists (EEAL),
Library of Congress, Vol. 5, no. 11, Nov. 1956

ZIVANOVIC, D.

"Effect of Sound Waves on the Multiplication of the 'Paramecium' p. 185
(ZBORNIK RADOVA, Vol. 25, no. 2, 1952, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2,
No. 10, October, 1953, Unclassified

YUGOSLAVIA/Analytic Chemistry. Analysis of Inorganic
Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77338.

Author : Zivanovich Dusan.

Inst :

Title : Application of Potentiometric Method to Titrimetric
Determination of Percentual Iron Content in Iron
Ores and of Manganese Content in Ferromanganese and
Manganese-Silicon.

Orig Pub: Tehnika, 1958, 13, No 2, Hem. ind., 12, No 2, 22-26.

Abstract: In the determination of Fe, 0.5 g of the rock to
be analyzed is dissolved in the mixture of 30 ml
of HCl (1 : 1), 30 ml of HNO₃ (1 : 1) and 15 ml
of H₂SO₄ (1 : 1), the solution is evaporated until
fumes of SO₃ appear, diluted with water and filtered.

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YUGOSLAVIA/Analytic Chemistry. Analysis of Inorganic
Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77338.

The insoluble residue is burnt with the filter, evaporated with 1 ml of 40%-ual HF and 1 or 2 drops of concentrated H_2SO_4 until dry, and fused with $K_2S_2O_7$. The fuse is dissolved in dilute H_2SO_4 and the solution is combined with the original filtrate. The prepared solution (solution A) is evaporated to about 100 ml, heated with 5 ml of concentrated HCl to the boiling point, and $SnCl_2$ is added in a little excess (1 to 2 drops) for the reduction of Fe^{3+} ; 100 to 200 ml of water, 10 ml of $HgCl_2$ solution, 50 ml of mixed H_2SO_4 and H_3PO_4 (150 ml of H_2SO_4 , 100 ml of H_3PO_4 and 750 ml of water mixed together), and 12 drops of 1%-ual diphenylamine solution in concentrated

Card : 2/3

89

YUGOSLAVIA/Analytic Chemistry. Analysis of Inorganic
Substances.

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77338.

H_2SO_4 are added, and the mixture is titrated potentiometrically with 0.1 n. $K_2Cr_2O_7$ solution. For Mn determination, the analysis is started in the same way up to the preparation of the solution A, which is diluted with water to 250 ml after that. 25 g or more of solid $Na_2P_2O_7 \cdot H_2O$ and up to about 300 ml of water are added to 25 ml of the dilute solution, pH is adjusted on the level of 6 to 6.5 with H_2SO_4 , and it is titrated with 0.02 n. $KMnO_4$ solution. Both the methods give reproducible results. - N. Turkevich.

Card : 3/3

CA

7

Determination of zinc by the ferrocyanide method
D. Živanović (Rudnik "Trepča," Zvezan, Yugoslavia).
Ball, "Encyc.," Belgrade 13, 81-100 (1950) (English summary);
cf. Low, "Technical methods of ore analysis," 1929,
p. 252 (C.A. 23, 571); Hastings, "Eng. Mining J. Press,"
121, 247-49 (1929).—Details are given for detg. Zn in metallurgical
products and in ores. 23 references. S. B. B.

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<p><i>PC</i></p> <p>2232. Fluorimetric method for determination of zinc (in steel). D. ZHURAVLEV, Sov. Pat. 510,000. Belorod, 1959, 18, 61-100. A sample (0.5-1 g.) containing <20% of Fe is evaporated with dil. (1:1) HNO_3 to dryness; 1 g. of Na perchlorate, 10 ml. water, and 10 drops of H_2O_2 are added; and the residue is boiled for a few min. without filtering; then Fe is precip. with eq. HCl. The liquid is filtered, and the ppt. washed 3 times with 4% sol. $(NH_4)_2HPO_4$ (not HCl), as in this case Cu cannot be precip. with NH_4Cl. The filtrate is boiled to measure most of the HCl, and Cu is precip. with 10 ml. of 15% eq. $NiCl_2$. Without removing the ppt., 5 ml. of dil. (1:1) HCl are added and the liquid is titrated with eq. $K_4Fe(CN)_6$, using zinc methylide as external indicator.</p> <p>S. S. BILBOLD</p>		<p><i>39</i></p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
<p>1958-1959 METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1"> <thead> <tr> <th>1958 LITERATURE</th> <th>1959 LITERATURE</th> <th>1958-1959</th> <th>1959</th> </tr> </thead> <tbody> <tr> <td>160389</td> <td>160390</td> <td>160391</td> <td>160392</td> </tr> <tr> <td>160393</td> <td>160394</td> <td>160395</td> <td>160396</td> </tr> <tr> <td>160397</td> <td>160398</td> <td>160399</td> <td>160400</td> </tr> <tr> <td>160401</td> <td>160402</td> <td>160403</td> <td>160404</td> </tr> <tr> <td>160405</td> <td>160406</td> <td>160407</td> <td>160408</td> </tr> <tr> <td>160409</td> <td>160410</td> <td>160411</td> <td>160412</td> </tr> <tr> <td>160413</td> <td>160414</td> <td>160415</td> <td>160416</td> </tr> <tr> <td>160417</td> <td>160418</td> <td>160419</td> <td>160420</td> </tr> <tr> <td>160421</td> <td>160422</td> <td>160423</td> <td>160424</td> </tr> <tr> <td>160425</td> <td>160426</td> <td>160427</td> <td>160428</td> </tr> <tr> <td>160429</td> <td>160430</td> <td>160431</td> 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Electrolytic determination of cadmium (Hormann, French, Venezuelan, Venezuelan, Dutch, German, French, 14, October 1960) (English summary).—The determination of Cd in different metallurgical products of Zn and Pb is described. Dissolve 3 g Zn, concentrated in 10 ml. 6 N HCl and 15 ml. concentrated HNO₃. Heat. The solution, in a small volume, treat with 15 ml. 18 N H₂SO₄ and heat. Treat the nearly dry residue with 100 ml. of hot H₂O, add 15 ml. of 15% Na₂CO₃, boil the mixture for a few minutes, filter, wash the filter with 40 ml. H₂O, 12 ml. of water, NaOH, and 3.5 ml. K₂Cr₂O₇ (10% Na₂Cr₂O₇) to port. Mn, boil the mixture a few minutes, slightly cool, acid treat; with a little 30% H₂O₂. Add the suspension obtained to 100 ml. concentrated NaOH to stop. Filter, dilute, boil, add wash with 10 ml. 4% (Na₂Cr₂O₇ solution). Heat the filtrate in a mixture of Na₂CO₃ and H₂O, dil. to 250 ml., neutralize with CuO, Na₂CO₃ (metabolic red) and acidity with 1 drop of 18 N H₂SO₄. Add 6.5-1 ml. of 0.1% solution of pure stannous and 5% H₂BO₃. Electrolyze the solution at 50° for 0.5 hr. by using 20 g anode and a 6 X 150 mm. carbon cathode. Place the electrolytic cell in a vacuum desiccator. Wash the cathode with 100 ml. H₂O, remove a few crystals of H₂BO₃, and disassemble. Use 100 ml. 10% NaOH to wash the cathode. The washings and the electrolyte should give no test for Cd. When the 250 ml. electrolyte contains a large amt. of Cd, effect the titration of Mn and Fe in a 250-ml. volumetric flask with 50 ml. concentrated NaOH, adjust the vol. and take a 200-ml. aliquot for further work. The amt. of Cd absorbed by Fe(OH)₂ is tested in a control run by using a standard Cd soln. to which was added an amt. of Fe approx. equal to that in the analyzed sample, and the result of the analysis corrected accordingly. In the analysis of barbitone dust (1) it is necessary to remove PbSO₄ before Cd is plated with Na₂SO₄. For the analysis of Cd concentrations (II) a 0.1-0.2% sample is used. Since I and II contain more As than Fe, a 10-fold excess of CdSO₄ and 10% Na₂SO₄ is used. S. B. B.

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heart exam. (Ser))